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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,076	07/03/2003	Peter Robert William Myles	P68694US0	3475

136 7590 09/06/2005
JACOBSON HOLMAN PLLC
400 SEVENTH STREET N.W.
SUITE 600
WASHINGTON, DC 20004

EXAMINER

XU, LING X

ART UNIT	PAPER NUMBER
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1775

DATE MAILED: 09/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/612,076	Applicant(s) MYLES ET AL.	
	Examiner Ling X. Xu	Art Unit 1775	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) 5, 10, 13, 16-21, 27 and 30-36 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-9, 11, 12, 14, 15, 22-26, 28, 29, 37 and 38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>8/15/2005</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, claims 1-38 and a single species of adhesive interlayer being ethylvinylacetate, a single species of the desired visual effect being an image providing sheet or an interlayer formed of vinyl, in the reply filed on 8/15/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1-4, 6-9, 11-12, 14-15, 22-26, 28-29 and 37-38 read on the elected species. Claims 5, 10, 13, 16-21, 27 and 30-36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6-9, 22-26, 28-29 and 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lay et al. (US 5,598,674) in view of Kourtides et al. (US 4, 598,007).

Lay discloses a lightweight composite glass panel comprising a glass pane mounted on a supporting panel having two layers of aluminum sheeting with a polyethylene core (abstract).

Art Unit: 1775

Lay does not disclose the supporting panel having a honeycomb core structure as claimed.

With respect to claims 1, 3, 9, 25 and 37-38, Kourtides teaches a honeycomb core is sandwiched by facesheets and an adherent decorative film is applied on either or both facesheets (col. 8, lines 55-65). The facesheet is adhering the decorative film to one side of the facesheet and adhering the other side of the facesheet to the honeycomb core (col. 9, lines 14-20).

With respect to claims 2, 4, 24 and 26, Kourtide teaches that the facesheets are made of resin reinforced glass fiber (col. 7, lines 20-35).

With respect to claims 6-8, 22, 28-29 and 37, Kourtides teaches that the decorative film has an eye-pleasing color and/or texture (col. 8, lines 55-67). The decorative film may include polyvinylidene, which is one of the vinyl polymers.

With respect to claim 23, Kourtides teaches that the honeycomb core is made of aluminum (col. 8, lines 35-55).

Kourtides also teaches that the composite structure as disclosed is lightweight and excellent fire resistance (abstract).

Therefore, it would have been obvious to one of ordinary skill in the art to use the honeycomb core structure as taught by Kourtides in Lay's glass panel in order to provide the glass panel with lightweight and improved fire resistant.

3. Claims 11-12 and 14-15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lay et al. (US 5,598,674) and Kourtides et al. (US 4, 598,007), as applied to claims 1-4 and 6-9, and further in view of Mauthe (US 4,391,662).

Art Unit: 1775

As stated above, Lay and Kourtides disclose the same composite structural panel as recited in claims 1-4 and 6-9.

Kourtides does not teach that the adhesive is made of ethylvinylacetate.

However, using ethylvinylacetate is well known in the art. Mauthe teaches the use of thermoplastic adhesives in a number of industries such as furniture, automobile, aircraft and construction industry. Mauthe also teaches that the thermoplastic adhesives have the advantage of being free of solvents and dispersing agents (col. 1, lines 10-25). Mauthe teaches that the known thermoplastic adhesives include ethylvinylacetates (col. 4, lines 15-30).

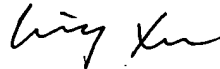
Therefore, it would have been obvious to one of ordinary skill in the art to use ethylvinylacetates as the adhesive material for Lay and Kourtides composite structural panel because the thermoplastic adhesive material such as ethylvinylacetates is free of solvents and thus is capable to provide instantaneous bonding without the evaporation of solvent.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling X. Xu whose telephone number is 571-272-1546. The examiner can normally be reached on 8:00 - 4:30 Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah D. Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1775

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ling X. Xu
Examiner
Art Unit 1775

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